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POWER ELECTRONICS: Converters, Applications, and Design NED MOHAN Department of Electrical Engineering University of Minnesota Minneapolis, Minnesota TORE M. UNDELAND Department of Electrical Engineering and Computer Science Norwegian Institute of Technology Trondheim, Norway WILLIAM P. ROBBINS Department of Electrical Engineering

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Power electronics converters are widely used in myriad power conversion applications from fraction of volt and power to tens of thousands of volts and power levels. Sometimes it involves multistage power conversion with two or more converters connected in series/parallel or in cascade fashion.

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Power electronics is the application of solid-state electronics to the control and conversion of electric power.. The first high power electronic devices were mercury-arc valves.In modern systems, the conversion is performed with semiconductor switching devices such as diodes, thyristors, and power transistors such as the power MOSFET and IGBT.In contrast to electronic systems concerned with ...

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### **Power Electronics Converters Applications And**

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use of power electronic converters for utility applications. In transmission systems, power electronic converters are being utilized to control power flow, damp power oscillations, and enhance system sta-

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